

APPENDIX C:

**PROCEDURES FOR IDENTIFYING
INDIVIDUALS WITH MENTAL ILLNESS**

DEFINITION OF "INPATIENT STAYS"

**PROCEDURES FOR DISTINGUISHING
CLINICAL VS. SUPPORTIVE SERVICES**

**PHARMACEUTICAL GROUPS USED TO DEFINE
PSYCHIATRIC MEDICATIONS**

Appendix C

Procedures for Identifying Individuals with Mental Illness, Definition of “Inpatient Stays,” Procedures for Distinguishing Clinical vs Supportive Services, and Pharmaceutical Groups Used to Define Psychiatric Medications

I. Identification of Population of Users of Services for Mental Disorders

Primary Identifiers

A person with any service identified as a “Primary Identifier” is automatically included in the mental disorder care (MDC) user population.

Secondary Identifiers

A person with no primary identifier services, but with secondary services is not included in the user population. However, both primary identified services and secondary identified services are included as care for mental disorders services for anyone who has at least one primary identified service.

RULE #1: DIAGNOSIS CODE

Table C-1 Presence of One of the Following as the first three Digits of any Diagnosis Code on Any MSIS Claim Is a Primary Identifier for Inclusion in the MH Population	
Group 1: Mental Health (psychiatric diagnoses)	
Schizophrenia	295
Affective Psychoses	296
Paranoid States	297
Other Non-organic Psychoses	298
Childhood Psychoses	299
Neurotic Disorders	300
Personality Disorders	301
Sexual Disorders	302
Physiological Malfunction Arising from Mental Factors	306
Special Symptoms, Not Classified Elsewhere	307
Acute Reaction to Stress	308
Adjustment Reaction	309
Depressive Disorders, Not Classified Elsewhere	311
Disturbances of Conduct, Not Classified Elsewhere	312
Child and Adolescent Emotional Disorders	313
Hyperkinetic Syndrome of Childhood	314
Factors Associated with Other Diseases	316

GROUP 2: ORGANIC DISORDERS, DEMENTIA AND ALZHEIMER'S	
Senile and Presenile Organic Psychotic Condition	290
Transient Organic Psychotic Conditions	293
Other Organic Psychotic Conditions (Chronic)	294
Conditions due to Organic Brain Damage	310
Other Cerebral Degenerations	331
GROUP 3: SUBSTANCE ABUSE	
Nondependent Abuse of Drug	305
Alcohol	
Alcoholic Psychosis	291
Alcohol Dependence	303
Drug	
Drug Psychosis	292
Drug Dependence	304
GROUP 4: MR/DD	
Mental Retardation	317-319
Developmental Delay	315

Rule #2: State-specific Procedure Codes (PCs)

Table C-2 PCs that are primary identifiers of the New Jersey MH population¹	
W9114	INDIVIDUAL PSYCHOTHERAPY, BY A PSYCH
W9134	CATTEL INFANT INTELLIGENCE SCALE
W9161	OTHER (BY REPORT)
Y7557	TBI,COG THERAPY PER VISIT
Y7559	TBI,COUNSELING (INDIV'L FAMILY)
Y7564	TBI,BEHAVIOR PROGRAM(ASSESSMENT)
Y7565	TBI,BEHAVIOR PROGRAM CONTINUING
Y7566	TBI,BEHAVIOR SPECIALIST
Y9433	SCHOOL,BASED REHAB: EVALUATION
Y9434	SCHOOL,BASED REHAB: IN,DISTRICT
Y9435	SCHOOL,BASED REHAB: OUT OF DISTRICT
Y9436	SCHOOL,BASED: NON,PUBLIC
Y9439	SCHOOL REHAB , STATE FACILITY
Z0100	OFF,SITE CRISIS INTERVENTION
Z0130	COMPLETE PSYCHOLOGICAL TESTING, PSYC
Z0160	PARTIAL HOSPITALIZATION, FULL DAY (5
Z0170	PARTIAL CARE, HALF DAY (3 HOURS MINI
Z0180	PARTIAL CARE, FULL DAY (5 HOURS MINI
Z0310	INITIAL COMPREHENSIVE SPEECH/LANGUAG
Z1339	HOME HEALTH AIDE/HOUR CCPED/HCEP
Z1400	CASE MANAGEMENT DDD\CCW
Z1405	HABILITATION, AA DDDÀ\$ ÀCCW
Z1410	PERSONAL CARE, GROUP HOME, DDDÀ\$ ÀCCW
Z1413	PERSONAL CARE INDEPENDENT LIVING
Z1435	PERSONAL CARE, SD HOME, DDDÀ\$ ÀCCW
Z1467	HABILITATION, NON,AA, DDDÀ\$ ÀCCW
Z1481	RESPIRE, HOURLY, DDDÀ\$ ÀCCW
Z1520	PERSONAL CARE, SSD HOME, DDDÀ\$ ÀCCW
Z2000	FAMILY THERAPY RENDERED IN A NARCOTI
Z2001	FAMILY CONFERENCE RENDERED IN A NARC
Z2002	PRESCRIPTION VISIT RENDERED IN A NAR
Z2003	PSYCHOTHERAPY RENDERED IN A NARCOTIC
Z2004	GROUP THERAPY RENDERED IN A NARCOTIC
Z2005	PSYCHOLOGICAL TESTING RENDERED IN A
Z2006	METHADONE TREATMENT RENDERED IN A NA
Z2007	PSYCHOTHERAPY ,HALF SESSION, RENDERE
Z2010	URINE ANALYSIS FOR DRUG ADDICTION
Z3333	COMPREHENSIVE INTAKE EVALUATION
Z3334	SUB ACUTE RESIDENTIAL DETOXIFICATION
Z3335	SHORT TERM RESIDENTIAL SA TREATMENT
Z3337	THERAPEUTIC COMMUNITY SA TREATMENT
Z3339	SA HALFWAY HOUSE

¹ Definitions for procedure codes are taken verbatim from state formulary lists. Many descriptions are abbreviated or truncated in the source material.

Table C-2 PCs that are primary identifiers of the New Jersey MH population¹	
Z3343	SA HALFWAY HOUSE , CHILD
Z3344	SA PARTIAL CARE
Z3345	SA PARTIAL CARE , CHILD
Z3346	INTENSIVE OUTPATIENT SA
Z3347	INTENSIVE OUTPATIENT SA , CHILD
Z3353	PRESCRIPTION VISIT IN SA CENTER
Z3354	PSYCHOTHERAPY IN SA CENTER , FULL
Z3355	GROUP THERAPY IN SA CENTER / PERSON
Z3357	METHADONE TREATMENT IN DRUG CENTER
Z3358	PSYCHOTHERAPY IN SA CENTER , HALF
Z3359	URINALYSIS FOR DRUG ADDICTION
Z3363	CASE MANAGEMENT SERVICES

¹ Definitions for procedure codes are taken verbatim from state formulary lists. Many descriptions are abbreviated or truncated in the source material.

II. Definition of Inpatient Stays

For several tables, we identify users of inpatient psychiatric care. Within the broad category of inpatient psychiatric care, we identified recipients of three separate subtypes of care:

1) Users of an Institution for Mental Disorders (IMD)

We defined this group as anyone with a claim with one of these two state-supplied type of service codes for institutional care.

02 – Mental Hospital for the Aged

04 – Inpatient Psychiatric Facility for Beneficiaries Under Age 22

2) Users of an Acute Inpatient Hospital with a Mental Disorder Diagnosis

Anyone with an acute inpatient claim, defined by the type of service 01 (Inpatient) that also had as the primary diagnosis any of the codes listed in Rule #1 shown above.

3) All Other Residential Facilities

We defined these users as those with a claim with a “SMRF Type of Service” (coded by MPR for the MAX files) of either 52 (Residential Care) with a psychiatric diagnosis or 53 (Psychiatric Services) that appear from the description to be for residential care.

We then categorized users as those with “more than 30 days” of care or “30 or less days of care” by counting total days within the span dates of the claims in each category and then summing these days across claims for each person. For neither group do the resultant days need to be consecutive.

III. Procedures for Distinguishing Clinical vs Supportive Services

For non-institutional care, we developed the following algorithm to identify two subgroups of community care use, identified as follows:

Clinical – evaluation, diagnostic, and treatment services to the individual

Therapeutic – all other psychiatric supportive services, including some case management, and family or group counseling

**Table C-3
PCs that are Clinical Services²**

W9114	INDIVIDUAL PSYCHOTHERAPY, BY A PSYCH
W9134	CATTEL INFANT INTELLIGENCE SCALE
Y7557	TBI,COG THERAPY PER VISIT
Y7564	TBI,BEHAVIOR PROGRAM(ASSESSMENT)
Y7565	TBI,BEHAVIOR PROGRAM CONTINUING
Y7566	TBI,BEHAVIOR SPECIALIST
Y9433	SCHOOL,BASED REHAB: EVALUATION
Z0100	OFF,SITE CRISIS INTERVENTION
Z0130	COMPLETE PSYCHOLOGICAL TESTING, PSYC
Z0310	INITIAL COMPREHENSIVE SPEECH/LANGUAG
Z2002	PRESCRIPTION VISIT RENDERED IN A NAR
Z2003	PSYCHOTHERAPY RENDERED IN A NARCOTIC
Z2005	PSYCHOLOGICAL TESTING RENDERED IN A
Z2006	METHADONE TREATMENT RENDERED IN A NA
Z2007	PSYCHOTHERAPY ,HALF SESSION, RENDERE
Z3333	COMPREHENSIVE INTAKE EVALUATION
Z3346	INTENSIVE OUTPATIENT SA
Z3347	INTENSIVE OUTPATIENT SA , CHILD
Z3353	PRESCRIPTION VISIT IN SA CENTER
Z3354	PSYCHOTHERAPY IN SA CENTER , FULL
Z3357	METHADONE TREATMENT IN DRUG CENTER
Z3358	PSYCHOTHERAPY IN SA CENTER , HALF
Y7554	TBI,PHSICAL THERAPY PER VISIT
Y7555	TBI,OCCUPATIONAL THERAPY VISIT
Y7556	TBI,SPEECH THERAPY PER VISIT

² Definitions for procedure codes are taken verbatim from state formulary lists. Many descriptions are abbreviated or truncated in the source material.

**Table C-4
PCs that are Therapeutic Services³**

Y7559	TBI,COUNSELING (INDIV'L FAMILY)
Y9434	SCHOOL,BASED REHAB: IN,DISTRICT
Y9435	SCHOOL,BASED REHAB: OUT OF DISTRICT
Y9436	SCHOOL,BASED: NON,PUBLIC
Y9439	SCHOOL REHAB , STATE FACILITY
Z1339	HOME HEALTH AIDE/HOUR CCPED/HCEP
Z1400	CASE MANAGEMENT DDD\CCW
Z1405	HABILITATION, AA DDDÀ\$ ÀCCW
Z1410	PERSONAL CARE, GROUP HOME, DDDÀ\$ ÀCCW
Z1413	PERSONAL CARE INDEPENDENT LIVING
Z1435	PERSONAL CARE, SD HOME, DDDÀ\$ ÀCCW
Z1467	HABILITATION, NON,AA, DDDÀ\$ ÀCCW
Z1481	RESPIRE, HOURLY, DDDÀ\$ ÀCCW
Z1520	PERSONAL CARE, SSD HOME, DDDÀ\$ ÀCCW
Z2000	FAMILY THERAPY RENDERED IN A NARCOTI
Z2001	FAMILY CONFERENCE RENDERED IN A NARC
Z2004	GROUP THERAPY RENDERED IN A NARCOTIC
Z2010	URINE ANALYSIS FOR DRUG ADDICTION
Z3355	GROUP THERAPY IN SA CENTER / PERSON
Z3359	URINALYSIS FOR DRUG ADDICTION
Z3363	CASE MANAGEMENT SERVICES
Y7433	TBI,CASE MANAGEMENT,INITAL MONTH
Y7434	TBI,CASE MANAGEMENT,CONTINUING
Y7435	TBI,COMMUNITY RESID'L 2,4 HRS
Y7436	TBI,COMMUNITY RESID'AL 4,8 HRS
Y7437	TBI,COMMUNITY RESID'L >8 HRS
Y7438	TBI,STRUCTURED DAY PROG. FULL DAY
Y7439	TBI,STRUCTURED DAY PROGRAM HALF DAY
Y7443	TBI,SUPPORTED DAY PROGRAM
Y7444	TBI,PERSONAL CARE WEEKDAY HRLY
Y7445	TBI,PERSONAL CARE WEEKENDS HRLY
Y7454	TBI,PCA RN INITIAL RN ASSESSMENT
Y7455	TBI,PCA RN REASSESSMENT
Y7568	TBI,ENVIRONMENTAL MODIFICATION
Y9333	EARLY INTERVENTION: MULTI REHAB
Y9334	EARLY INTERVENTION: REHAB W/EVALUATI
Y9336	EARLY INTERVENTION: TCM
Y9337	EARLY INTERVENTION: TCM W/EVALUATION
Y9437	SCHOOL REHAB, INDISTRICT TRANS ROUND
Z0160	PARTIAL HOSPITALIZATION, FULL DAY (5
Z0170	PARTIAL CARE, HALF DAY (3 HOURS MINI

³ Definitions for procedure codes are taken verbatim from state formulary lists. Many descriptions are abbreviated or truncated in the source material.

Z0180	PARTIAL CARE, FULL DAY (5 HOURS MINI
Z3334	SUB ACUTE RESIDENTIAL DETOXIFICATION
Z3335	SHORT TERM RESIDENTIAL SA TREATMENT
Z3337	THERAPEUTIC COMMUNITY SA TREATMENT
Z3339	SA HALFWAY HOUSE
Z3343	SA HALFWAY HOUSE , CHILD
Z3344	SA PARTIAL CARE
Z3345	SA PARTIAL CARE , CHILD
Y9438	SCHOOL REHAB, SPECIAL TRANS ROUND

IV. Pharmaceutical Groups Used to Define Psychiatric Medications

We used the Multum prescription drug categorization software (obtained from www.Multum.com) to identify psychoactive pharmaceuticals. For users otherwise identified as MDC users, we included all prescriptions for drugs in the following classes as psychopharmaceuticals:

- Barbiturates
- Benzodiazepines
- Miscellaneous Anxiolytics, Sedatives and Hypnotics
- CNS Stimulants
- Miscellaneous Antidepressants
- Miscellaneous Antipsychotic agents
- Psychotherapeutic Combinations
- Psychotherapeutic Combinations
- Miscellaneous Central Nervous System Agents
- SSRI Antidepressants
- Tricyclic Antidepressants
- Phenothiazine Antipsychotics
- Psychotherapeutic agents
- Antidepressants
- Monoamine oxidase inhibitors
- Antipsychotics